Format No: CP/TF/01

# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-08-16-17** **Date: 20/08/2018**

**Customer** : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : T Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at Mallasandra pipeline road (Opp. Bangalore) in Bagalagunte in Ward No.14

**Agency** : Technical Manager(West), Karnataka Rural Infrastructure Development Limited(KRIDL), Project Implementation Unit, No. 280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-

**Customer's Reference** : BBMP/EE/DD/WO/378/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 16-08-18

**Sample ID No** : 2018-08-16-17 /01

**Customer ID** : M20 Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 20/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 13/08/2018 | 20/08/2018 | 151.67 X 149.01 X 151.11 | 22600 | 8.393 | 407.6 | 18.0 | 18.3 |
| 2 | M20 Concrete | M20 | 13/08/2018 | 20/08/2018 | 150.00 X 151.55 X 150.54 | 22732 | 8.340 | 413.5 | 18.2 | |
| 3 | M20 Concrete | M20 | 13/08/2018 | 20/08/2018 | 151.91 X 150.21 X 150.07 | 22819 | 8.386 | 426.4 | 18.7 | |

**Note:**

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Authorized Signatory
**Quality Manager**

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## TEST RESULTS OF STEEL

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-07-09** **Date: 09-08-18** |
| **Customer** | : | Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | T Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at Mallasandra pipeline road (Opp. Bangalore) in Bagalagunte in Ward No.14 |
| **Agency** | : | Technical Manager(West), Karnataka Rural Infrastructure Development Limited(KRIDL), Project Implementation Unit, No. 280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010 |
| **Customer's Reference** | : | BBMP/EE/DD/WO/378/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 07-08-18 |
| **Sample ID No** | : | 2018-08-07-09 /04 |
| **Sample Type** | : | Sunvik |
| **Reference to BIS codes** | : | IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012. |
| **Date of test:** | : | 07-08-18 |

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress | Tensile strength | Elongation | Bend test | Rebend test |
|---|---|---|---|---|---|---|---|---|---|
| | | | (mm) | (kg/m) | (N/mm2) | (N/mm2) | (%) | | |
| 1 | Sunvik | Fe500 | 8 | 0.398 | 535 | 641 | 21.0% | Satisfactory | Satisfactory |
| 2 | Sunvik | Fe500 | 10 | 0.615 | 545 | 658 | 20.0% | Satisfactory | Satisfactory |
| 3 | Sunvik | Fe500 | 12 | 0.878 | 558 | 668 | 19.0% | Satisfactory | Satisfactory |

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**Authorized Signatory**
**Quality Manager**


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## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-08-07-09** **Date: 10-08-18** |
| **Customer** | : | Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore. |
| **Address** | : | T Dasarahalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at Mallasandra pipeline road (Opp. Bangalore) in Bagalagunte in Ward No.14 |
| **Agency** | : | Technical Manager(West), Karnataka Rural Infrastructure Development Limited(KRIDL), Project Implementation Unit, No. 280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010 |
| **Customer's Reference** | : | BBMP/EE/DD/WO/378/17-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 07-08-18 |
| **Sample ID No** | : | 2018-08-07-09 /02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 07-08-18 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **15000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 1173 | 1173 | 7.8 | 92.2 | 90-100 |
| 3 | 20 mm | 5824 | 6997 | 46.6 | 53.4 | 30-70 |
| 4 | 10 mm | 4729 | 11726 | 78.2 | 21.8 | 10-35 |
| 5 | 4.75 mm | 2546 | 14272 | 95.1 | 4.9 | 0-5 |
| 6 | Pan | 728 | 15000 | 100.0 | 0 | --- |



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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : **CP-2018-08-20-07** **Date: 13/09/2018**

**Customer** : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : T Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at Mallasandra pipeline road (Opp. Bangalore) in Bagalagunte in Ward No.14

**Agency** : Technical Manager(West), Karnataka Rural Infrastructure Development Limited(KRIDL), Project Implementation Unit, No. 280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010

**Customer's Reference** : BBMP/EE/DD/WO/378/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 20-08-18

**Sample ID No** : 2018-08-20-07 /02

**Customer ID** : C C Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 28 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 13/09/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C C Pavement | M30 | 16/08/2018 | 13/09/2018 | 150.14 X 150.11 X 149.36 | 22537 | 8.133 | 696.3 | 30.9 | 31.0 |
| 2 | C C Pavement | M30 | 16/08/2018 | 13/09/2018 | 151.94 X 149.72 X 150.24 | 22749 | 8.359 | 683.7 | 30.1 | |
| 3 | C C Pavement | M30 | 16/08/2018 | 13/09/2018 | 149.44 X 151.28 X 149.53 | 22606 | 8.145 | 725.8 | 32.1 | |

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Quality Manager

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2018-08-20-07 **Date: 23/08/2018**

**Customer** : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : T Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at Mallasandra pipeline road (Opp. Bangalore) in Bagalagunte in Ward No.14

**Agency** : Technical Manager(West), Karnataka Rural Infrastructure Development Limited(KRIDL), Project Implementation Unit, No. 280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010

**Customer's Reference** : BBMP/EE/DD/WO/378/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 20-08-18

**Sample ID No** : 2018-08-20-07 /03

**Customer ID** : C C Pavement

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M30 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 23/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C C Pavement | M30 | 16/08/2018 | 23/08/2018 | 149.98 X 151.74 X 150.32 | 22757 | 8.207 | 546.6 | 24.0 | 23.6 |
| 2 | C C Pavement | M30 | 16/08/2018 | 23/08/2018 | 150.26 X 150.99 X 151.03 | 22687 | 8.507 | 526.9 | 23.2 | |
| 3 | C C Pavement | M30 | 16/08/2018 | 23/08/2018 | 149.11 X 150.15 X 150.81 | 22389 | 8.576 | 527.5 | 23.6 | |

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# TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2018-08-16-17 **Date: 20/08/2018**

**Customer** : Assistant Executive Engineer,T Dasarahalli Sub Division, BBMP, Bangalore.

**Address** : T Dasarahalli Sub Division, BBMP, Bangalore.

**Project Name** : Improvements to roads and drains at Mallasandra pipeline road (Opp. Bangalore) in Bagalagunte in Ward No.14

**Agency** : Technical Manager(West), Karnataka Rural Infrastructure Development Limited(KRIDL), Project Implementation Unit, No. 280,59th Cross road,17th C Main road, 3rd Y Block,Rajajinagara, Bangalore-560010

**Customer's Reference** : BBMP/EE/DD/WO/378/17-18

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 16-08-18

**Sample ID No** : 2018-08-16-17 /09

**Customer ID** : M20 Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

**Date of test** : 20/08/2018

| Sl. No. | Identification Mark | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen (mm) | Cross sectional area (Sq.mm) | Weight of the sample (kg) | Failure Load (KN) | Compressive strength ($N/mm^2$) | Average Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | M20 Concrete | M20 | 13/08/2018 | 20/08/2018 | 149.14 X 149.84 X 151.68 | 22347 | 8.141 | 388.6 | 17.4 | 18.1 |
| 2 | M20 Concrete | M20 | 13/08/2018 | 20/08/2018 | 150.06 X 151.34 X 150.78 | 22711 | 8.347 | 415.9 | 18.3 | |
| 3 | M20 Concrete | M20 | 13/08/2018 | 20/08/2018 | 150.30 X 149.14 X 149.58 | 22417 | 8.146 | 418.4 | 18.7 | |

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